DVORAK, B.

"Conditions in a restored fish pond in the first vegetative period.", p. 95, (SBORNIK, Vol. 26, #1/2, Feb 1953, Czechoslovakia)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress, August 1953, Uncl.

DVORAK, B.

DVORAK, B., MUDr.

Successful organization of the fight against absenteeism for disease & injuries carried out by Prague physicians. Cesk. zdravot. 5 no.9: 523-526 Sept 57.

1. Vedouci oddeleni pece o pracujici, zdrav. odbor UNV h. m. Prahy.
(INDUSTRIAL HYGIENE
absenteeism, prev. in Czech. (Cz))

STIKSA, J.; DVORAK, B.; PALEC, R.; SOUKUP, V.

Evaluation of working ability. Cesk. zdravot. 6 no.9:540-547 Sept 58.
(DISABILITY EVALUATION (Cz))

ENCL: 00 SUB CODE: MM

DVORAK, Bretislav, inz.

Conference on irrigation equipment and its operation. Vest ust zemedel 11 no.10:424-425 '64.

DVORAK, Bretislav, inz.

For the increase of soil fertility. Vest ust zemedel 12 no.2:49 '65.

DVORAK, Bretislav, inz.

By the new technology to a better production economy. Vest ust zemedel 12 no.3:135 '65.

1. Administration of Scientific and Technical Development of the Ministry of Agriculture, Forestry and Water Resources, Prague.

DVORAK, Bretislav, inz.

Role of the establishments of Agricultural Research Institutes. Vest ust zemedel 12 no.4:149 '65.

Seminar on the effectiveness of large area irrigations. Ibid.: 161-163

Tasks of the research in the field of land improvement and irrigation in the coming years. Ibid.:173-174

1. Administration of the Scientific and Technical Development of the Ministry of Agriculture, Forestry and Water Resources, Prague.

DVORAK, Dalibor, inz.

Special machines for blade production in the Zavody Jana Svermy Praha. Zpravodaj VZLU no.3:121-125 '63.

LAURENC, Vilem; SOCH, Karel; NECKAR, Ferdinand, inz., CSc.; ZAK, Vladimir, inz.; SLABA, Jaroslav, RNDr.; DVORAK, Dalibor, inz.; MASEK, Zdenek, inz.

Discussion. Pt.2. Zpravodaj VZLU no.3:173-176 '63.

DVORAK, Dusan

For maximum use of capital funds in chemical industries. Chem prum 13 no.1:1-2 Ja '63.

1. Ministerstvo chemickeho prumyslu.

DVORAK, Dusan

Considerations on the resolution of the 12th Congress of the Communist Party of Czechoslovakia. Chem prum 13 no.2:57-59 F '63.

1. Ministerstvo chemickeho prumyslu.

DVORÁK, Eduard

Projektovani strojirenskych zarvodu. (Designing of Machinery Enterprises; a university textbook. 1st ed. illus., bibl.) For the students of the Faculty of Mechanical Engineering. Prague, SNTL, 1957. 122 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 36. 15 Oct 57. p. 787.

DVORAK, E.; AND OTHERS

Notes on the Czechoslovak standard No. 38 3350 concerning heat supply.
p. 323.

ENERGETIKA. Praha, Czechoslovakia. Vol. 9, No. 6, June 1959

Monthly list of East European Accessions. (EEAI) LC, Vol. 8, No. 10
Oct. 1959.
Uncl.

BLAZHEK, L. [Blazek,L.] (Chekhoslovakiya); DVORZAK, E. [Dvorak,E.] (Chekhoslovakiya); MYSHIK, S. [Mysik,S.] (Chekhoslovakiya)

Agglomeration of nutadiene-styrene latex particles by freezing. Part.1: Effect of the nature of emulsifier, pH of latex and temperature of freezing on the agglomeration of butadiene-styrene latexes. Koll.zhur. 26 no.6:657-661 N-D '64 (MIRA 18:1)

DVORAK, Eduard, inz.; RANDA, Frantisek, inz., arch.

System of individual buildings in machine factories.
Tech praca 15 no.10:793-799 O '63.

S/081/62/000/022/069/088
B166/B144

AUTHORS: Láníček, Dušan, Škrabal, Bernard, Dvořák, Emil

TITLE: Emulsion polymerization of vinyl monomers and mixtures of these in an acid medium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 519, abstract 22P290 (Czech. patent 97902, Jan. 15, 1961)

TEXT: Emulsion polymerization of butadiene, styrene, acrylonitrile, mixtures of these, or these monomers together with methacrylic acid, is carried out between -5 and +15°C (preferably +5°C) in the presence of a cation-active emulsifier or inorganic acid, organic acid (or a mixture of these) and suitable buffers. The redox initiator system consists of isopropyl benzene hydroperoxide, sodium formaldehyde sulfoxylate (Rongalite C) and soluble Fe^{2+} salt. Apart from the fact that the initiators are readily available, the advantage of the method lies in a high degree of conversion being achieved in a short time and the consequent possibility of producing concentrated latexes directly in the reactor. Example. 100 parts by weight

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styrene and 1.4 parts by weight methacrylic acid are polymerized at 5°C and pH 4 in the presence of 159 parts by weight water, 3.58 parts by weight sodium diisopropyl naphthalene sulfonate, 0.08 parts by weight sodium formaldehyde sulfoxylate, 0.008 parts by weight Fe^{2+} salt and 0.159 parts by weight diisopropyl benzene hydroperoxide. In 3 hrs the conversion reaches 80%. [Abstracter's note: Complete translation.]

[illegible] the [illegible] for [illegible]
[illegible] the [illegible] of the
[illegible] example [illegible] explosive [illegible]
[illegible] and the partial charges were [illegible]
[illegible] electric by staggering the [illegible]
[illegible] and the effect of distance between [illegible]
[illegible] of a device for measuring [illegible]
[illegible] described. Orig. art. has [illegible]

[illegible] Properties, Physics

[illegible]

[illegible]

CZECHOSLOVAKIA

DVORAK, Frantisek, Department of Botany of the J.E. Purkyne University (Katefra botaniky University J.E. Purkyne,) Brno.

"Hesperis pycnotricha Borb. et Deg. in Czechoslovakia."

Bratislava, Biologia, Vol 18, No 7 , 1963; pp 527-530.

Abstract: Brief description of a species of biannual plant which had heretofore not been known to grow in Slovakia, main habitat being Southern Russia. Map, 3 references: Czech, Hungarian, Soviet.

1/1

JANDA, M.; DVORAK, F.; EXNER, O.

Chlormethylation in the thiophene group. Part 4: On the α-substituted 5-methylthiophene-2-carbonic acid and 5-methylpyromusic acid. Coll Cz Chem 27 no.5:1191-1198 My '62.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag (for Janda and Dvorak). 2. Polarographisches Institut, Tschechoslowakische Akademie der Wissenschaften, Prag (for Exner).

DVORAK, F.

Assembly of the Morava television transmitter. p.361

INZENYRSKE STAVBY. (Ministerstvo stavebnictvi)
Praha, Czechoslovakia Vol. 7, no. 10, Oct. 1959.

Monthly List of East European Accession, (EEAI), LC, Vol. 8, No. 12, Dec. 1959
Uncl.

S/081/62/000/022/020/088
B144/B101

AUTHORS: Janda, M., Dvořák, F.

TITLE: Chloromethylation in the thiophene series. III. Synthesis and chloromethylation of 2-propynyl thiophene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 199-200, abstract 22Zh163 (Collect. Czechosl. Chem. Communs, v. 27, no. 2, 1962, 372-376 [Germ.; summary in Russ.])

TEXT: A new method is described for synthesising 2-propynyl thiophene (I) which is an intermediate product in the synthesis of the antibiotic Unipal, 5-propynyl thiophene-2-aldehyde. The chloromethylation of I is studied. The solution of 0.54 mole 2-propionyl thiophene (II) in 150 ml absolute ether is added dropwise within 20 min to a stirred suspension of 0.24 mole $LiAlH_4$ in 400 ml ether, the mixture is boiled for 5 hrs, after which 9 ml water, 9 ml 15% NaOH solution, and 27 ml water are successively added and it is stirred for 10 min, the precipitated salt is separated and after removal of the ether 1-(thienyl-2)-propanol-1, $C_7H_{10}OS$ (III) is ob-

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tained; yield 95%, b.p. 102-103°C/10 mm Hg. III in the form of K alcoholate is converted to the xanthate (IV), working successively with equimolar CS_2 volumes and, after stirring for 10 hrs (20°C), with CH_3I. IV is decomposed by column distillation at a bath temperature of 150-200°C, from the distillate 2-propenyl thiophene, C_7H_8S (V), is separated by distillation; yield 81%, b.p. 63°C/14 mm Hg. V is converted by the action of the equimolar Br_2 quantity in CCl_4 at 80°C into 2-(α,β-dibromo-propyl) thiophene (VI). Nonpurified VI (0.14 mole) is added dropwise to tert-C_4H_9OK (from 0.54 mole tert-C_4H_9OH and 0.27 mole K in 150 ml toluene), the mixture is boiled for 20 hrs, when tert-C_4H_9OH is distilled-off, decomposed by cold water and I is separated; yield 72.7%, b.p. 120-122°C/15 mm Hg, $n_D^{20.5}$ 1.5879. When VI is dehydrobromated with powdered KOH in tetrahydrofuran, 2-bromo-propenyl thiophene of undetermined structure, C_7H_7BrS (VII) is obtained; yield 39.4%, b.p. 128-130°C/33 mm Hg, n_D^{20} 1.6010. Owing to the action of

tert-C_4H_9OK, VII is converted to I with a yield of 55.3%. By interaction of 0.04 mole I with 0.12 mole 40% formalin and 20 ml 37% HCl (3 hrs, 50-60°C, stirring) 5-chloromethyl-2-propiothienone, C_8H_9ClOS (VIII) is obtained; yield 47%, b.p. 125°C/0.5 mm Hg. By oxidation with $Pb(NO_3)_2$ VIII is converted to 5-propionyl-2-thiophene aldehyde (IX), b.p. 87-89°C/1 mm Hg; 2,4-dinitro phenyl hydrazone, $C_{14}H_{12}N_4O_5S$, m.p. 199-201°C (from alcohol). IX also can be obtained, by treating VIII according to Sommelet (boiling with urotropin in $CHCl_3$ and subsequent hydrolysis). When 18.6 g II is chloromethylated in aqueous medium analogously to I, 2-propionyl 5-hydroxy methyl thiophene, $C_8H_{10}O_2S$, is obtained; yield 5.2 g, b.p. 134°C/0.4 mm Hg, m.p. 124°C (from ether and water). When 0.16 mole II are brought into reaction with 7.1 g paraform and 5.4 g anhydrous $ZnCl_2$ in 80 ml $CHCl_3$ (25-30°C, 3 hrs flow of dry HCl gas), VIII is obtained with a yield of 34.2%. The structure of VIII and IX is identified by oxidizing VIII with dilute HNO_3 to thiophene-2,5-

dicarboxylic acid, yield 87%; and to dimethyl ester, m.p. 147-148°C (from CH_3OH). VIII obtained from II is oxidized with $Pb(NO_3)_2$ to IX, $C_8H_8O_2S$, yield 59.4%, b.p. 76°C/0.6 mm Hg. By 2 hrs boiling with 3.3 g $Pb(NO_3)_2$ in 25 ml water, 1.2 g I is converted to II, yield 51%, b.p. 88-90°C/8 mm Hg; and to dinitrophenyl hydrazone, $C_{13}H_{12}N_4O_4S$, m.p. 205-206°C (from alcohol). Communication II: see RZhKhim, 1962, 5Zh239. [Abstracter's note: Complete translation.]

DVORZHAK, Frantishek [Dvorak, Frantisek], inzh.

Czechoslovak research in the field of commutation of d.c. machines. Izv. vys. uch. zav.; elektromekh. 5 no.8:937-943 '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut elektrotekhniki v Bukhovitse, Chekhoslovakiya.
(Czechoslovakia—Electric machinery—Direct current)

Z/006/60/000/018/001/001
D006/D102

AUTHOR: Dvořák, František

TITLE: A tower above the countryside

PERIODICAL: Technické noviny, no. 18, 1960, 6

TEXT: The Jižní Čechy (South Bohemia) TV relay station was built 20 m below the summit of Klet Mountain (1,080 m above sea level) near Holubov. According to information furnished by Architect Jan Šesták of the odbor výstavby KNV (Construction Department, KNV) in České Budějovice, construction of the relay station started in April 1958 and was completed on May 1, 1959. The antenna tower is 116.5 m high, 14.5 m wide at the base, and 2.5 m wide at the top, and was produced by the Vítkovické železárny (Vítkovice Iron Works). The control cabin is located at a height of 30 m. Electric power is supplied from Třísov through a 6.5-km long, high-voltage overhead line and a 500-m underground cable. Water is pumped from a reservoir located 1 km from the station, 80 m below the summit of Klet Mountain. A 1,750-m long chair-lift, with 23 masts of seamless

Card 1/2

A tower above the countryside

Z/006/60/000/018/001/001
D006/D102

steel tubes, will be built from Krasetín to the station to provide transportation for station personnel who reside in Holubov. The equipment for the chair-lift will be produced by the národní podnik Transporta (Transporta National Enterprise) in Chrudim and the Vodní Stavby (Hydraulic Construction Enterprise) in Sezimovo Ústí will be in charge of the construction work. Construction of a 3.5-km long road has already started from the Holubov railroad station to the chair-lift station. Currently, a small observatory is being built on top of Kleť Mountain by workers of the České Budějovice Observatory. There are 3 figures.

Card 2/2

DVORAK, F.

Assembling of the Moravia television transmitter. (Conclusion) p. 417

INZENYRSKE STAVBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia. Vol. 7, no. 11, Nov. 1959

Monthly list of East European Accessions (EEAI) LC, vol. 9, no.1, Jan. 1960

Uncl.

PROKOP, J., inz.; DVORAK, F., inz.

Properties of Czechoslovak kaolins used for coating mixtures.
Sbor cel pap no.7:229-244 '62.

PROKOP, Jiri, inz.; JASA, Jaroslav; DVORAK, Frantisek, inz.

Use of domestic butadiene-styrene lattices for surface finishing of paper. Papir a celulosa 18 no. 12: 246-249 '63.

1. Vyzkumny ustav papiru a celulosy, pracoviste Praha (for Prokop and Jasa).
2. Ministerstvo chemickeho prumyslu (for Dvorak).

SILENY, Karel; DVORAK, Frantisek; SHANEL, Jan

Organization of the joinery production in Suchdol nad Luznici.
Drevo 18 no.8:301-305 Ag '63.

1. Jihoceske drevarske zavody, n.p., Ceske Budejovice.

DVORAK, Frantisek

Electrolytic fluorination of organic substances in anhydrous hydrogen fluoride. Chem listy 59 no.6:698-716 Je '65.

1. Chair of Organic Chemistry of Higher School of Chemical Technology, Prague.

KNOTZ, F.; DVORAK, F.

Problem of prevention of atelectasis. Bratisl. lek. listy 34 no.2: 186-189 F '54.

1. Z Chirurgickej kliniky LFSU v Kosiciach, prednosta prof. dr. J.Knazovicky.

(ATELECTASIS,
*postop., prev.)
(LUNGS, surgery,
*postop. atelectasis, prev.)

DVORAK, F.

Malignant pheochromoblastoma. Bratisl. lek. listy 34 no.4:420-425 Ap '54.

1. Z Chirurgickej kliniky LFSU v Kosicach, prednosta prof. dr. J.Knazovicky.

(PARAGANGLIOMA,
*breast)
(BREAST, neoplasms,
*paraganglioma)

DVORAK, Frantisek, inz.

Building apartments houses in the form of hollow cylinders.
Inz stavby 12 no.11:518-519 N '64.

DVORAK, F., inz.

Pipe cleaner. Vodni hosp 14 no.2:3 of cover '64.

DVORAK, F., inz.

Seventy-fifth birthday of Bohumil Silny. Vodni hosp 14 no.12:444 '64.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620017-9"

of Chrysanthemum L. genus.
monotype genus Dolias
graph and 2 tables.

botaniki universitete im. Ia. Ia.
University of Ia. Ye. Purkin

ENCL: 0

OTHER: 2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000411620017-9"

DVORAK, Frantisek

The karyotype Deilosma tristis (L.) Spach. Biologia (Bratisl) 20 no.7:546-547 '65.

1. Botany Department, J.E.Purkyne University, Brno.

L 9772-66

ACC NR: AP6001425 SOURCE CODE: CZ/0049/65/000/002/0085/0089

AUTHOR: Dvorak, Frantisek--Dvorzhak, Frantishek (Doctor)

ORG: Botanical Faculty, University of J. E. Purkyne, Brno

17
B

TITLE: Nectaires of Deilosma Tristis (L.) Spach

SOURCE: Biologia, no. 2, 1965, 85-89

TOPIC TAGS: plant morphology, plant physiology

ABSTRACT: Comparison of the monotype genus Deilosma with the closely related genus Hesperis shows that the Hesperis does not have any median nectaries, and the side ridges are only slightly indicated. Therefore, the high percentage of the plants Deilosma Tristis (L.) Spach possessing median nectaries indicates that this is the older genus. The presence of nectaries, together with other morphological characters, is enough to differentiate between the genus Deilosma and Hesperis. Orig. art. has: 1 figure, 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 005

Card 1/1

CZECHOSLOVAKIA

DVORAK, F; DEDEK, V

Institute of Organic Chemistry, Technical Institute of Chemistry (Institut fur organische Chemie, Technische Hochschule fur Chemie), Prague - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 7, July 1966, pp 2727-2736

"Electrofluorination of fluorides of chloro-acetic acid."

Dvorak, Ivo!

Surname, Given Names

Country: Czechoslovakia

Academic Degrees: MD

Affiliation: No II Clinic of Internal Medicine (II. vnitrni klinika) in Brno. Head: professor Jiri POLCAK, MD.

Source: Prague, Vnitrni Lekarstvi, No 4, Apr 61, pp 361-370

Data: "The Question of the Preinfarction Stage."

Co-authors:

HOLA, Jiri, MD. No II Clinic of Internal Medicine, Brno.

DVORAK, Ivo, MD. " " " " "

CZECHO[illegible]

STEJFA, M., Jr; MOCAK, J; DVORAK, I.

Second Internal Medicine Clinic of the Medical Faculty of UJEP (II. vnitrni klinika lekarske fakulty UJEP) Brno (for all)

Prague, Vnitrni Lekarstvi, No 9, 1964, pp 864-868

"The Syndrome of Aggravating Angina Pectoris."

MOCEK, Jiri; STEFFA, Milos, ml.; DVORAK, Ivo

Pathological and anatomical aspects of the ischemic cardiac pain in intermediate coronary syndrome. Vnitrni lek. 11 no.12:1152-1157 D '65.

1. II. vnitrni klinika lekarske fakulty University J.E. Purkyne v Brne (prednosta - prof. Dr. Jiri Polcak).

DVORAK, J.; MATYSKA, B.

Thermal destruction of polychloroprene. Coll Cz Chem 28 no.9:2387-2392 S '63.

1. Department of Physical Chemistry, Charles University, Prague, and Institute of Physical Chemistry, Czechlslovak Academy of Sciences, Prague.

ARIENT, J.; DVORAK, J.; SNOBL, D.; HAVLICKOVA, L.

Imidazole dyes. Pts. 10-11. Coll Cz Chem 28 no.9:2479-2490, 2534-2536 S '63.

1. Forschungsinstitut fur organische Synthesen, Pardubice-Rybitvi.

CZECHOSLOVAKIA

DVORAK, J.; JAMBOR, V.; Chair of Dietetic Nutrition and Fodder, Veterinary Faculty, College of Agriculture (VSZ, Veterinarni Fakulta, Katedra Vyzivy, Dietetiky a Picninarstvi), Brno.

"Biological Evaluation of Fodder Root Crops."

Prague, Veterinarni Medicina, Vol 11, No 10, Oct 66, pp 613-620

Abstract /Authors' English summary modified/: Losses of vitamin C in fodder prepared from potatoes and beet were investigated. At harvest potatoes contain 17.05 mg%, and beet 10.88 mg% of vitamin C. During storage up to 78% may be decomposed in potatoes, and 70% in beet. Frost causes a loss of 7.6% in potatoes, and 10.8% in beet. Combined loss due to frost and rot damage may destroy up to 94% of the vitamin in beet. Cooking of potatoes destroys 16-28%, and of beet 60% when fresh; in stored beet the loss may amount to 90%. Conservation methods serving to maximize the amount of vitamin C in the fodder are discussed. 2 Figures, 2 Western, 5 Czech references. (Manuscript received 28 Feb 66).

1/1

ARIENT, Josef; DVORAK, Jan; KOKES, Petr

Oxidation of naphthoylene-bis-benzimidazoles. Chem prum 13 no.5:245-246 My '63.

1. Vyzkumny ustav organickych syntez, Pardubice - Rybitvi.

DVORAK, Jan

Fine machining on planing machines replaces grinding.
Stroj vyr 11 no. 12: 603-606 '63.

1. Zavody V.I. Lenina, n.p., Plzen.

ACCESSION NR: AP4022221 Z/0041/64/000/002/0160/0171

AUTHOR: Dvorak, Jan (Dvorzhak, Yan) (Engineer, Candidate of technical sciences)

TITLE: Bending of a circular orthotropic loosely supported plate

SOURCE: Strojnicky casopis, no. 2, 1964, 160-171

TOPIC TAGS: stress, strain, elasticity, deformation, orthotropy, Kirchhoff law, Poisson ratio, Mohr circle, Fourier series, Euler equation, Hooke law

ABSTRACT: The author gives an approximate solution of the stress and strain in a circular square-orothotropic plate loosely supported over the circumference and loaded by a transverse uniformly distributed load. The substance of the calculation is that the solution is assumed to be in the form of the sum of two functions w_1 and w_2. The function w_1 satisfies all random conditions but the moment condition at the edges of the plate, and w_2 is a correcting function by means of which the resulting solution also satisfies the random moment condition. It is presented in the form of an infinite series, and only the first two terms of that series are used in the calculation. The theoretical solution is accomplished by the results of numerical calculations and by graphs of the radial and

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ACCESSION NR: AP4022221

circumferential moments for three values of the central angle and for the solution with and without correction. Orig. art. has: 60 formulas, 3 figures, and 1 table.

ASSOCIATION: Statni vyzkumny ustav tepelne techniky, Prague (State Research Institute of Thermal Engineering).

SUBMITTED 15Mar63 DATE ACQ: 08Apr64 ENCL: 00

SUB CODE: AP NO REF SOV: 003 OTHER: 001

Card 2/2

Dvorak

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb '60.

102. Z. Dvorak (Prague): The state of stress and deformation of the turbine blades.

103. V. M. Dovgy (Kharkov): On some new forms of the general solution of the three-dimensional problem of the theory of elasticity expressed in harmonic functions.

104. A. A. Derkachev (Sverdlovsk): Generalization of the method of steepest descent in structural mechanics.

105. B. V. Deriagin (Moscow), S. V. Nerpin (Leningrad): Surface phenomena in the mechanics of clays.

106. A. E. Depov (Moscow): Experimental data concerning the propagation of vibrations of different frequencies in concrete mixtures.

107. G. Ia. Dzhanelidze (Leningrad): Alexandrov's problem.

108. M. I. Dlugach (Kiev): A finite difference analysis of cylindrical shells with rectangular holes.

109. M. I. Dlugach (Kiev): Generalization of Mohr's method of establishing the displacements in problems of the theory of elasticity.

110. M. B. Dolbeng (Kharkov): The construction of solutions of the equations of structural mechanics by means of special uniformly convergent series.

111. L. G. Dragkin (Leningrad): A method of investigating the states of stress and strain and the slip lines in anisotropic multilayer metals.

112. A. V. Dzatiev (Dnepropetrovsk): The stability of an obliquely bent beam.

113. L. I. Dzatlovitskii, L. B. Rabinovich (Kiev): A problem concerning elastic bodies whose configuration changes in the course of loading, with application to the erection of structures.

114. P. D. Evdokimov (Leningrad): On the shear strength of structural rock foundations.

115. P. D. Evdokimov (Leningrad): On friction in sandy soils and their shear strength.

116. E. N. Egorov (Moscow): The deformation of the ground under an annular foundation.

117. G. S. Elmanovskii (Moscow): On stresses and strains of thin-walled rods of variable cross section at normal and elevated temperatures.

118. Zh. S. Erzhanov (Dnepropetrovsk): Determination of the pressure in a tunnel facing taking account of the hereditary creep of soils.

119. Zh. S. Erzhanov (Dnepropetrovsk): The integral operator method of determining the creep characteristics of soils from observations in situ.

120. E. F. Erzhov (Gorki): The elastic-plastic bending of a bar.

121. A. M. Zhukov (Moscow): Elastic properties of a plastically deformed metals under combined loading.

122. F. A. Zhuravlev, A. F. Zakharovich, N. P. Nyrkov (Leningrad): Application of the method of characteristics to the determination of the tension in the cable of a mine elevator.

123. M. A. Zakalian (Erevan): On the propagation of plastic zones in a beam under impulsive loading.

124. L. I. Zaitsev (Moscow): On the surface head-wave.

125. N. V. Zvorykin, Sh. N. Katz (Leningrad): An experimental study of creep-rupture characteristics of tubes under combined stresses.

126. N. V. Zvolinskii (Moscow): The propagation of an elastic wave due to an underground explosion.

127. A. F. Zolotin (Moscow): On the state of stress in compression and its effect on the construction of Mohr's circles.

128. I. K. Zilov, Ia. B. Fridman (Moscow): The laws of deformation and rupture plastics.

129. F. L. Imaev (Leningrad): Flow of water-saturated soils under dynamic loading

130. V. S. Ivanova (Moscow): The hypothesis of energetic similarity in fatigue fracture and the melting of metals.

131. D. D. Ivlev (Voronezh): On the anisotropy of elastic and plastic bodies.

132. I. N. Izotov, Iu. I Lazi (Leningrad): Plastic tension and torsion of thin-walled nickel tubes that have become anisotropic through prior plastic deformation.

133. Ia. S. Ilenko, S. V. Sokolov (Moscow): Investigation of elastic strains and vibrations in aircraft structures by means of electronic computers.

DVORAK, J.

"Semicircular plate in an elastic and plastic condition"

Aplikace Matematiky. Praha, Czechoslovakia. Vol. 4, no. 1, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 7, July 59, Unclas

DVORAK, J.

Coatings based on water soluble resins. Jemna mech opt 7 no.10:324 O '62.

DVORAK, Jiri

Methods ofwage fund revision in case the number of employees does not correspond to the plan. Prace mzda 11 no.10:444-450 O '63.

CHALOUPKA, Vojtech; DVORAK, Jan, ins.

The 5,5 MHz transmitter, type UVR BD 8 W. Geol pruzkum 6 no.2:58-59 F'64

1. Ustav pro vyzkum rud, Praha.

24286

11800

Z/032/61/011/008/005/009
E073/E535

AUTHORS: Sýkorová, V., Dvořák, J., Průšek, J. and Vychytil, P.

TITLE: Continuous anodic oxidation of aluminium conductors

PERIODICAL: Strojírenství, 1961, Vol.11, No.8, p.634

TEXT: A technology of continuous oxidation of aluminium conductors was developed in which a superimposed current is applied at a current density of about 150 A/dm^2. Within 15 sec an oxide layer about 8 μ thick forms which fully satisfies electrical requirements. The use of the extremely high current densities was made possible by feeding in the current through a liquid and using a special cooling system. The quality of the oxide layer is monitored by an automatic unit. A three-pole optical and sound signalling system gives information to the attending personnel on the state of the process. The oxide layers can withstand temperatures up to 300°C so that they form an insulation of the highest thermal class. In contrast to organic insulating materials, these layers also have a high resistance to high energy radiation in atomic reactors, accelerators etc. The breakdown

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voltage of an 8 μ layer is about 200 V r.m.s. and can be doubled by impregnation. The thus insulated conductors can be wound by conventional methods with a minimum curvature of eight times the wire diameter. These aluminium conductors enable increasing the thermal class of the windings and reducing the total weight of electrical machinery; pilot plant manufacture of these conductors has commenced.

1960, Prague: SVÚOM 45/60

[Abstractor's Note: Complete translation.]

Card 2/2

DVORAK, J.

"Calculating stress and deformations in spiral casings of hydraulic machines." p. 170.

STROJIRENSTVI. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju). Praha, Czechoslovakia, Vol. 9, No. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

CZECHOSLOVAKIA

DVORAK, J., Chair of Foods, Dietetics and Technical Zoology of the Veterinary Faculty of the University for Agriculture at Brno, Head Asst. Prof. J. Kabrt (Z katedry vyzivy, dietetiky a zootechniky veterinarni fakulty VSZ v Brne, prednosta doc. dr. J. Kabrt).

"The Influence of Antibiotics in the Fodder Upon the Metabolism of Vitamin C in Growing Pigs."

Prague, Veterinarni Medicina, Vol. 8, No. 1, Jan. 63, pp 57 - 64.

Abstract [Author's English summary modified]: Chlorotetracycline and l-ascorbic acid were used in experiments. Antibiotics increased utilization of forage and gain in weight. No sign of deficiency of vitamin C was found when ascorbic acid was not added to fodder. Antibiotics did not increase the content of vitamin C in the blood serum. No references.

- END -

DVORAK, J.; TRUPLOVA, E.

Determination of sodium in the presence of titanium by flame photometers. Coll Cz Chem 28 no.6:1609-1612 Je '63.

1. Forschungsinstitut fur anorganische Chemie, Usti nad Labem.

DVORAK, JAR. (Prague)

"Determination of the state of stress near a cross-shaped crack".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

DVORAK, J.

Tasks of machine-tractor stations in 1955. p. 1.
MECHANISACE ZEMEDELSTVI. Vol. 5, No. 1, Jan. 1955

SO: Monthly East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

DVORAK, J.; VAGENKNECHT, J.

Let us handle fruit tree sprayers carefully. p. 29.
MECHANISACE ZEMEDELSTVI. Vol. 5, No. 2, Jan. 1955

SO: Monthly East European Accession , (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

DVORAK, J.

Successful mastering of the spring work, prerequisite for a high yield per hectare.

p. 41
Vol. 6, no. 3, Feb. 1956
MECHANISACE ZEMEDELSTVI
Praha

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

DVORAK, J.

"Activities of the State Testing Station for Agricultural Machinery lead to greater efficiency in the production of agricultural machinery."

p. 21 (Zemelske Stroje, Vol. 3, no. 1, Jan. 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

DVORAK, J.

"Introduction of new machines into agricultural production, an important factor in the growth of labor productivity and in the reduction of production cost."

SBORNIK. RADA ZEMEDELSKA EKONOMIKA. Praha, Czechoslovakia, Vol. 32, No. 6, June 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

DVORAK, JOSEF

L 41519-65 ARG/EEO-2/EWG(j)/EWT(d)/FBD/FSS-2/EWG(r)/EWT(1)/FBO/EWP(e)/EWA(c)/
EWT(m)/FS(v)-3/EPF(c)/EEC(k)-2/EWG(s)-2/EWP(i)/EWP(f)/EWG(v)/EWP(c)/EWP(v)/EWA(1)/
EPR/EWP(j)/T-2/EWG(a)-2/EWP(h)/EPA(bb)-2/EEC(c)-2/EED-2/EWG(c)/FCS(k)/EWP(b)/
AM4045110 Pl-4/Pw-4/Pk-4/Pn-4/ BOOK EXPLOITATION Pi-4/Ph-4/Pac-2/Ps-4/Pr-4/
Po-4/Pe-5/Pq-4/Pac-4/Pr-4 IJP(c) AST/TT/WW/DD/RM/GW/BC/AH

Barvir, Miroslav, (Engineer); Benes, Konrad, (Professor, Doctor); Douska, Jiri, (Doctor); Hudil, Ivo, (Graduate in Philosophy); Cepiecha, Zdenek, (Candidate of Physical and Mathematical Sciences); Codr, Milan, (Doctor); Dolezal, Vladimir, (Doctor); Dvorak, Antonin, (Candidate of Medical Sciences); Dvorak, Josef, (Doctor); Guth, Vladimir, (Candidate of Medical Sciences, Docent, Doctor); Horak, Zdenek, (Doctor of Physical and Mathematical Sciences, Corresponding Member of the Czechoslovak Academy of Sciences, Professor, Doctor); Hospodar, Jan, (Doctor of Physical and Mathematical Sciences, Doctor); Kleczek, Josip, (Doctor); Klest, Emil, (Candidate of Physical and Mathematical Sciences); Kolodovsky, Milan; Koml, Vladimir (Doctor); Kopecky, Miloslav, (Candidate of Legal Sciences); Krivsky, Ladislav, (Candidate of Physical and Mathematical Sciences); Kviz, Zdenek, (Candidate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Maloik, Vladimir, (Doctor); Moravek, Milan, (Candidate of Medical Sciences); Mrazek, Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of Technical Sciences); Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor); Pernegr, Jaroslav, (Doctor); Candidate of Physical and Mathematical Sciences); Pesek, Rudolf, Professor, Doctor, Engineer); Pipal, Miloslav, (Doctor of Technical Sciences, Corresponding member, of the Czechoslovak Academy of Sciences); Plavec, Miroslav, (Doctor); Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);

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Ruml, Vladimir, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schnal, Ladislav; Stverak, Jiri, (Doctor); Svestka, Zdenek, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Tysl, Vaclav, (Docent, Engineer); Ulehla, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Valnicek, Boris, (Candidate of Physical and Mathematical Sciences, Doctor); Vanysek, Vladimir, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasak, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miloslav, (Engineer)

Principles of astronautics (Zaklady kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

TABLE OF CONTENTS:

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Internal Medicine

CZECHOSLOVAKIA

FRANK, Zdenek; STVERAL, Jiri; DVORAK, Josef; Institute of Aeronautical Medicine (Ustav Leteckeho Zdravotnictvi), Prague.

"Radio Waves Another Scourge of Civilization."

Prague, Radar, Vol 1, No 3, Nov 66, pp 56 - 58

Abstract: Factors influencing the medium in which people are living are discussed. Radio waves are defined as waves with frequencies between 100 kilocycles and 3,000,000 kilocycles, that is waves 1 cm to 3,000 meters long. Although these waves do not affect the senses of the body, they do have an influence on it. Thermal and non-thermal effects of the radio waves on the human organism are described. Clinical aspects of these effects are evaluated. Some of these effects are described in detail. Protection against the influence of electromagnetic fields is discussed; some peculiar effects of these fields on human beings are described. Biological effects of radio waves are discussed. 1 Table, no references.

1/1

SVOBODA, Jaroslav; HRBEK, Antonin; KADLEC, Jiri; DVORAK, Jiri

Preparatory precision casting of metallic molds into a prehardened mixture. Slevarenstvi 10 no.8:308-311 Ag '62.

1. Ceskomoravska-Kolben-Danek Praha, Slevarny.

DVORAK, J.

Mechanical tests in laboratories, guarantee of the quality of material. p. 217. TEXTIL. (Ministerstvo lehkeho prumyslu) Praha. Vol. 9, no. 7, July 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

DVORAK, J.

Solution of topical tasks in the cotton industry. p. 55.

TEXTIL. (Ministerstvo lehkeho prumyslu) Praha, Czechoslovakia. Vol. 14, no. 2, Feb. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.

DVORZHAK, I.

ARAKhNE stitcher for nonwoven materials. Tekst.prom. 19 no.12:75-76 D '59. (MIRA 13:3)

1. Nauchno-issledovatel'skiy institut trikotazhnoy promyshlennosti v g.Brno.
(Czechoslovakia--Textile machinery)

DVORAK, J.

Present state of knitting techniques abroad. p. 91.

TEXTIL. (Ministerstvo lehkeho prumyslu) Praha, Czechoslovakia. Vol. 14, no. 3, March 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

Uncl.

CZECHOSLOVAKIA

VACIK, J.; DVORAK, J.

Institute of Physical Chemistry, Karlova University, Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 2, Feb 1966, pp 863-870

"Effect of the inhomogeneity of the electric field on the shape of the zones in paper electrophoresis."

CZECHOSLOVAKIA

ARIENT, J; DVORAK, J; NEPRAS, M; KOKES, P.

Research Institute for Organic Synthesis, Pardubice-Rybitvi - (for all).

Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1965, pp 3718-3729.

"Imidazol dyes. Part 15: Presentation of arolylenimidazol dyes and the influence of substitution on their coloring properties."

(4)

L 12956-66

ACC NR: AP6005663

SOURCE CODE: CZ/0079/65/007/002/0174/0175

AUTHOR: Formanek, J.; Dvorak, J.

ORG: Research Institute of Post and Telecommunications, Prague

TITLE: Subjective and electroencephalographic responses to weak intermittent optic stimuli [This paper was presented at the Third Interdisciplinary Conference on Experimental and Clinical Study of Higher Nervous Functions held in Marianske Lazne from 19 to 23 October 1964.]

SOURCE: Activitas nervosa superior, v. 7, no. 2, 1965, 174-175

TOPIC TAGS: EEG, light biologic effect

ABSTRACT: The authors proved experimentally that weak intermittent optical stimuli caused EEG reactions; the reactions were not caused by undesirable electrical couplings. They have a specific frequency, and are not caused by broad band activation or inhibition of the EEG. [JPRS]

SUB CODE: 06, 05 / SUBM DATE: none

Card 1/1 HW

DVORAK,J.; OTCENASEK,M.

Adiaspiromycosis. Cesk. epidem. 14 no.1:65-68 Ja '65

1. Parazitologicky ustav Ceskoslovenskej akademie ved, Praha.

DVORAK, J.; BURIAN, J.; BURDA, M.

Multiple diverticulosis of the jejunum. Cesk. radiol. 18 no.6:407-411 N '64.

1. Rentgenologicky ustav (prednosta doc. dr. J. Doubravsky, CSc.), II. chirurgicka klinika (prednosta doc. dr. J. Burian) lekarske fakulty Palackeho University v Olomouci.

FORMANEK, J.; DVORAK, J.

Subjective and electroencephalographic responses to weak intermittent optic stimuli. Activ. nerv. sup. (Praha) 7 no.2: 174-175 '65

1. Research Institute of Post & Telecommunications, Prague.
2. J.Formanek's address: Praha, Kovrova 2.

MANN, Miroslav; DVORAK, Jan

Our experience with the use of knit reinforcing mesh in operations for hernias of the anterior abdominal wall. Rozhl. chir. 41 no.2: 143-146 F '62.

1. Chir. odd. nemocnice v N. Meste na Mor., prednosta MUDr. M. Mann Vyzkumny ustav pletarsky v Brne, reditel B. Piller.

(HERNIA VENTRAL surg)

DVORAK, JAN

URBANEK, Karel; DVORAK, Jan

Late results of surgery in hallux valgus. Acta chir. orthop. traum. cech. 25 no.3:241-244 May 58.

1. Ortopedicka klinika VLA J. Ev. P. v Hradci Kralove.
(HALLUX, surg.
technics in hallux valgus, late results (Cz))

FORMANEK,J.; DVORAK,J.

Subjective critical flicker fusion frequency of intermittent optic stimuli and photic driving response. Activ. nerv. sup. 6 no.1:65-66 '64.

*

DVORAK,J.

A transistorized integrator of bio-electrical potentials with decimal divider of output frequency. Activ. nerv. sup. 5 no.4: 393-399 '63.

1. Vyzkumny ustav spoju, Praha.

*

DVORAK, Jan

Unconventional method of frequency division and pulse counting by using a core with rectangular hysteresis loop. Slaboproudy obzor 24 no.11:654-658 N'63.

1. Vyzkumny ustav spoju, Praha.

L 20518-66 T JK
ACC NR: AP5021659 (A) SOURCE CODE: CZ/0017/65/014/004/0229/0232

17
B

AUTHOR: Otcenasek, M.; Dvorak, J.; Prokopic, J.

ORG: Institute of Parasitology of the Czechoslovak AS (Parazitologicky ustav CSAV, Prague)

TITLE: Isolation of Emmonsia crescens Et Jellison 1960 on the territory of the CSSR (The Czechoslovak Emmons Soviet Socialist Republic)

SOURCE: Ceskoslovenska epidemiologie, mikrobiologie, imunologie, v. 14, no. 4, 1965, 229-232 and insert 4X facing page 225

TOPIC TAGS: parasite, animal parasite, animal microbiology, parasitology, parasitism

ABSTRACT: The article reports on the successful isolation of Emmonsia crescens Emmons et Jellison 1960 and on the mycological characteristics of the first Czechoslovak isolates of this organism. The present study is a continuation of earlier studies in that it continues the investigation of the infected lungs of small mammals in an attempt to isolate the adiaspiromycosis agent. The mycological investigation was made of the lung tissue of 119 live, wild rodents and insectivores caught live around Novy Budzov and subsequently put to death after removal of the ectoparasites. The animals caught represented six (6) species. Three specimens of Microtus arvalis were isolated from the lung tissue investigated. Macroscopic spherules, the parasitic stage of the

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ACC NR: AP5021559

organism, were observed only in one case. The investigators were successful in making a culture of this agent. This is the first recovery of Emmonsia crescens Emmons et Jellison 1960 in central Europe and is attributed to their understanding of the microbiology, ecology, and geography of this mycotic antigen. The morphophysiological characteristics of the isolated strains completely correspond to the initial descriptions of isolates of Emmonsia crescens. Orig. art. has: 1 table.

SUB CODE: 06 SUBM DATE: none OTH REF: 008

Card 2/2

[illegible]

[illegible]/0196

[illegible] Engineer.

[illegible] in a plate weakened by a square [illegible]

[illegible]xate matematiky, v. 8, no. 3, 1963, [illegible]

[illegible] perforated-plate stress, thermal stress, temperature distribution

[illegible] stress distribution in a plate [illegible] shaped [illegible]

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DATE ACQ: 17Jun63

SUB CODE: AP

NO REF SOV: 009

ENCL: 00

OTHER: 003

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Z/038/60/000/005/001/004
A201/A026

26.2135
26.2210

AUTHOR: Dvořák, Jan

TITLE: Several Strength Problems of Nuclear Reactor Pressure Vessels 19

PERIODICAL: Jaderná energie, 1960, No. 5, pp. 146 - 149

TEXT: In nuclear reactor design a number of characteristic strength problems are encountered. The choice of dimensions of the reactor vessel depends not only on the basic stress due to the internal overpressure, but also on a number of additional factors, namely: 1) Additional bending stresses originating in the vessel wall due to a sudden change of radius or thickness. 2) Stresses originating in the vessel wall in the vicinity of supports. 3) Stress increases in the transition area between the cylindrical part and the lower head of the vessel. 4) Distribution of stresses in the vicinity of inlet and outlet pipe penetrations. 5) Thermal stresses due to non-uniform distribution of heat across the length and thickness of the vessel wall. 6) Thermal-stress increases due to changes in operating conditions. - In the upper- and lower-vessel heads additional stresses arise in the vicinity of ports of technological channels. It is, therefore, necessary to ensure not only a sufficient strength but also an ade-

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Several Strength Problems of Nuclear Reactor Pressure Vessels

quate rigidity of the heads. In the following the above-mentioned problems will be dealt with in detail. 1) Additional bending stresses originating in the wall due to a sudden change of its radius or thickness. In reactor designs it is necessary at times to introduce a sudden change of the centerline radius, e.g., in a recess for the core base-plate support, for rests of thermal shield, etc. The difference between both radii - e, the internal pressure - p, the vessel-wall thicknesses - h_1 and h_2, and the centerline radius - r (Fig. 1a and 1b). Since the $\frac{e}{r}$ value is usually in the order of 10^{-2}, it is irrelevant which of the two centerline radii we choose. If the ends of the cylinder, or other sources of additional stresses, are at a distance from the recess larger than $2.45\sqrt{r \cdot h_{1,2}}$, then the axial component of additional stress is

$$\sigma_{01} = \frac{3\,p\,r\,e\,h_2^{\frac{5}{2}}}{h_1^2(h_1^{\frac{3}{2}} + h_2^{\frac{3}{2}})} \qquad (1)$$

This relation can easily be deducted from the condition of equal angle of tilt of two coaxial, semi-infinite cylinders with wall thickness h_1 and h_2, respec-

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Several Strength Problems of Nuclear Reactor Pressure Vessels

tively, loaded around their circumferences by an evenly distributed moment $\frac{p\,r\,e}{2}$. The upper free end of the cylinder with a wall thickness h_1 is loaded by a moment $\frac{p\,r\,e}{2} - M$, the lower end only by the internal moment M. From the condition of equal tilt angles of the cylinder ends, loaded with an evenly distributed moment (Ref. 1, p. 205), we obtain the equation for the unknown moment M

$$\frac{1}{\beta_1 D_1}\left(\frac{p\,r\,e}{2} - M\right) = \frac{M}{\beta_2 D_2}$$

where β is the damping coefficient

$$\beta_{1,2} = \sqrt[4]{\frac{3\,(1-\nu^2)}{h_{1,2}^2 r^2}}$$

and $D_{1,2}$ the bending rigidity

$$D_{1,2} = \frac{E h_{1,2}^3}{12\,(1-\nu^2)}\,.$$

If the internal moment M is known, the axial component of additional stress $\sigma_{01} = \frac{6\,M}{h_1^2}$. By substituting these relations in the previous deformation condi-

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